

#3

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Shaun JACKSON et al.  
Title: INHIBITION OF PHOSPHOINOSITIDE 3-KINASE  
BETA  
Int'l. Appl. No.: PCT/IB2003/004177  
Int'l. Filing Date: August 18, 2003  
Examiner: Unassigned  
Art Unit: Unassigned

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR §1.56**

Mail Stop PATENT APPLICATION  
Commissioner for Patents  
PO Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Submitted herewith on Form 1449B/PTO is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

**TIMING OF THE DISCLOSURE**

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits, and within three (3) months of the mailing date of the foreign search report.

RELEVANCE OF EACH DOCUMENT

Any document listed on the attached 1449B/PTO was cited as being relevant during the prosecution of the corresponding International application. A copy of the International Search Report is attached setting forth the portion of each document considered relevant by the examiner. An English-language counterpart of the foreign-language documents has not been provided. The absence of a translation or an English-language counterpart document does not relieve the PTO from its duty to consider any submitted document (37 CFR §1.98 and MPEP §609).

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form 1449B/PTO be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date 28 January 2005

FOLEY & LARDNER LLP  
Customer Number: 22428  
Telephone: (202) 672-5404  
Facsimile: (202) 672-5399

By Stephen A. Bent

Stephen A. Bent  
Attorney for Applicant  
Registration No. 29,768

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: January 31, 2005 <i>(use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	Unassigned <b>10/522777</b>
				Filing Date	January 31, 2005
				First Named Inventor	Shaun P. JACKSON
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet 1 of 2				Attorney Docket Number	027524-0122

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	A1	5 703 075 A		R. B. GAMMILL et al.	12/30/1997	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	A2		WO 01/53266 A1		THROMBOGENIX PTY LTD.	7/26/2001		
	A3		WO 91/19707 A2		THE UPJOHN COMPANY	12/26/1991		
	A4		WO 90/06921 A1		THE UPJOHN COMPANY	6/28/1990		
	A5		EP 0 341 104 A2		LIPHA LYONNAISE INDUSTRIELLE PHARMACEUITIQUE			

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>6</sup>
	A6	INTERNATIONAL SEARCH REPORT PCT/IB03/04177		
	A7	C.J. VLAHOS et al., "A specific inhibitor of phosphatidylinositol 3-kinase, 2-(4-morpholinyl)-8-phenyl-4H-1-benzopyran-4-one (L Y294002)", The Journal of Biological Chemistry, Vol. 269(7), 1994, pp. 5241-5248.		
	A8	J. MORRIS et al., "Synthesis and biological evaluation of antiplatelet 2-aminochromones.", Journal of Med. Chem. Vol. 36(14), 1993, pp. 2026-2032.		
	A9	C.W. BENJAMIN et al., "2-Aminochromones block human platelet aggregation by inhibiting cyclic AMP-dependent phosphodiesterase leading to reduced platelet phospholipase C activity", The Journal of Pharmacology and Experimental Therapeutics, vol. 265(1), pp. 457-462.		
	A10	C.W. BENJAMIN et al., "Inhibition of human platelet aggregation by novel 2-aminochromone phospholipase C inhibitors", Developments in Oncology (1993) 71 (Eicosanoids Other Bioact. Lipids Cancer, Inflammation RAdiat. Inj.) 231-233.		
	A11	STN File CA Abstract Accession No. 139:133525 & P.N. MANDHARE et al., Indian Journal of Heterocyclic Chemistry (2003), Volume Date 2002, 12 (3), 209-212.		

Examiner Signature	Date Considered	
--------------------	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>		<b>Application Number</b>	Unassigned <b>10/522777</b>
		<b>Filing Date</b>	January 31, 2005
Date Submitted: January 31, 2005 (use as many sheets as necessary)		<b>First Named Inventor</b>	Shaun P. JACKSON
		<b>Group Art Unit</b>	Unassigned
Sheet 2 of 2		<b>Examiner Name</b>	Unassigned
		<b>Attorney Docket Number</b>	027524-0122

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	A12	STN File CA Abstract Accession No. 138:287191 & S. BEUTNER et al., Advances in Colour Science and Technology (2002), 5(4), 103-112.	
	A13	STN File CA Abstract Accession No. 116:214192 & R.H. ERICKSON et al., Journal of Medicinal Chemistry (1992), 35(9), 1526-1535.	
	A14	STN File CA Abstract Accession No. 63:31556 & A.C. ANNIGERI et al., Monatshefte fur Chemie (1965), 96(2), 625-630.	
	A15	STN File CA Abstract Accession No. 62:49088 & J. TIROUFLET, Abhandl. Deut. Akad. Wiss. Berlin, KL, Chem, Geol. Biol. (1964), (1) 58-62.	
	A16	STN File CA Abstract Accession No. 56:73359 & P.F. DEVITT et al., Journal of Organic Chemistry (1961), 26, 4641-4944.	
	A17	STN File CA Abstract Accession No. 48:64297 & J. SCHMUTZ et al., Helvetica Chimica Acta (1953), 36, 620-626.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.